

IN THE CLAIMS:

Please amend the claims as follows.

Claim 1 (currently amended): Interference suppression filter and lightning current diverter device (1) in a coaxial line cable for the transmission of high-frequency signals, comprising:

a housing (2) with two cable connectors (7, 8), each connector provided on opposite ends of the device, the housing (2) forming an outer conductor (4) connected to ground, and comprising an inner conductor (3) guided through the housing (2); ~~as well as~~

a connection (5, 6) provided between the inner conductor (3) and housing (2), wherein characterized in that the connection comprises at least one pair of two lines (5, 6; 60, 61), ~~these;~~

wherein the two lines (5, 6; 60, 61) are disposed such that at least partially a region of the lines are substantially approximately parallel and overlapping with respect to one another, and the two lines (5, 6; 60, 61) are insulated against one another, ~~both lines (5, 6; 60, 61);~~

wherein each line comprise comprising at one end of their two ends (10, 11) a first contact element (27, 28; 67, 68) with respect for providing electrical connection to the inner conductor (3) and at the other end (14, 15) ~~each a~~ second contact element (18, 19; 69, 70) with respect for providing electrical connection to the housing (2);

wherein the second contact elements of the two lines are connected to different parts of the housing; and these

wherein the contact elements (18, 19, 27, 28 and 67, 68, 69, 70, respectively) of the two lines (5, 6; 60, 61) are disposed such that the directions of flow of the currents in the parallel region(s) of the two lines (5, 6; 60, 61) are directed counter one another.

Claim 2 (currently amended): Interference suppression filter and lightning current diverter device as claimed in claim 1, ~~characterized in that~~ wherein the lines (5, 6) are disposed approximately parallel to the inner conductor (3) and on a cylindrical surface concentric with the inner conductor (3), the two first contact elements (27, 28) of the two lines (5, 6) connected with the inner conductor (3) are disposed spaced apart from one another in the direction of the longitudinal axis (9) of the inner conductor (3), and the two lines (5, 6), starting from ~~these~~ the first contact elements (27, 28), are directed counter to one another.

Claim 3 (currently amended): Interference suppression filter and lightning current diverter device as claimed in claim 1, ~~characterized in that~~ wherein the housing (2) ~~includes~~ comprises a cylindrical core hollow space (32), and wherein the inner conductor (3) and the lines (5, 6) are disposed at a spacing from one another in ~~this~~ the core hollow space (32).

Claim 4 (currently amended): Interference suppression filter and lightning current diverter device as claimed in claim 1, ~~characterized in that~~ wherein the housing (2') ~~includes~~ comprises a first cylindrical core hollow space (33), ~~in this core hollow space (33)~~ is guided through the inner conductor (3), ~~and in the housing (2') an additional a second~~ hollow space (34) extending approximately parallel to the first core hollow space (33), and wherein ~~is disposed and~~ each of the lines (5', 6') is guided individually in ~~this~~ additional the second hollow space (34).

Claim 5 (currently amended): Interference suppression filter and lightning current diverter device as claimed in claim 1, ~~characterized in that~~ wherein the two lines (60, 61) are each disposed in a radial plane and extend concentrically with the inner conductor (3), ~~these the two~~ radial planes are disposed approximately at right angles to the inner conductor (3) and at a spacing (66) with respect to one another, and the first contact elements (67, 68) ~~with respect to the inner conductor (3)~~ provided at one end of each of the two lines (60, 61) are directed approximately radially inwardly, and the second contact elements (69, 70) ~~with respect to the housing (2)~~ provided at the other ends end of each of the two lines (60, 61) are directly approximately radially outwardly.

Claim 6 (currently amended): Interference suppression filter and lightning current diverter device as claimed in claim 1, ~~characterized in that~~ wherein the two lines (60', 61') are in the form of loops and are approximately parallel to one another in a common surface, ~~this~~ the surface extending at a spacing to the inner conductor (3) and disposed concentrically or parallel tangentially to the inner conductor, the first contact elements (67, 68) at one end of each of the two lines (60', 61') are directed approximately radially toward the inner conductor (3) and are connected with ~~it~~ the inner conductor, and the second contact elements (69, 70) at the other ends end of each of the two lines (60', 61') are connected with the housing (2).

Claim 7 (currently amended): Interference suppression filter and lightning current diverter device as claimed in claim 1, ~~characterized in that~~ wherein the two lines (5, 6; 60, 61) ~~between inner conductor (3) and housing (2)~~ are $\lambda/4$ short circuit lines.

Claim 8 (currently amended): Interference suppression filter and lightning current diverter device as claimed in claim 1, ~~characterized in that~~ wherein the two lines ~~(5, 6; 60, 61)~~ are electrically elongated $\lambda/4$ short circuit lines.

Claim 9 (currently amended): Interference suppression filter and lightning current diverter device as claimed in claim 1, ~~characterized in that~~ wherein each line ~~(5, 6; 60, 61)~~ comprises a capacitance ~~(49)~~ and an inductance ~~(48)~~ forming a parallel resonance circuit.

Claim 10 (currently amended): Interference suppression filter and lightning current diverter device as claimed in claim 1, ~~characterized in that in~~ wherein a capacitance is provided between the proximity of the two first contact elements ~~(27, 28; 67, 68) between the inner conductor (3) and the two lines, (5, 6; 60, 61) on the inner conductor (3) one capacitance each (43, 47) is implemented and~~ wherein the inner conductor (3) comprises ~~between the two connections (7, 8) a further capacitance (45) and at least one an~~ inductance ~~(44, 46)~~.

Claim 11 (currently amended): Interference suppression filter and lightning current diverter device as claimed in claim 1, ~~characterized in that~~ wherein at a capacitor is provided the output side (21) of the device on one end of the inner conductor (3) a capacitor (50) is disposed.

Claim 12 (currently amended): Interference suppression filter and lightning current diverter device as claimed in claim 1, ~~characterized in that between the ends (14, 15) of~~

~~the two lines (5, 6; 60, 61), with wherein a capacitor and a pulse-diverting element interconnected in parallel with the capacitor are provided between the second contact elements (16, 17; 69, 70) with respect to the housing (2), and the housing (2) one capacitor (52, 54) each and in parallel with it one additional pulse diverting element (51, 53) each is interconnected.~~

Claim 13 (currently amended): Interference suppression filter and lightning current diverter device as claimed in claim 1, ~~characterized in that~~ wherein the lines (5, 6; 60, 61) and the contact elements (16, 17; 27, 28; 67, 68; 69, 70) form different line sections and determine the bandwidth and the frequency range of the ~~HF~~ signal transmission.

Claim 14 (currently amended): Interference suppression filter and lightning current diverter device as claimed in claim 1, ~~characterized in that~~ wherein the inner conductor (3) comprises different line sections (56, 57), and the device comprises a dielectric material, and these and wherein the different line sections and the dielectric (24, 38) material about this the inner conductor (3) determine the characteristic over the bandwidth of the HF signal transmission.

Claim 15 (currently amended): Interference suppression filter and lightning current diverter device as claimed in claim 1, ~~characterized in that two lines (5, 6; 60, 61) each are combined to form a pair, and several~~ wherein the device comprises at least one pair ~~pairs of lines (5, 6; 60, 61) are installed between inner conductor (3) and housing (2).~~

Claim 16 (currently amended): Interference suppression filter and lightning current

diverter device as claimed in claim 12, ~~characterized in that~~ wherein the pulse-diverting element ~~(51, 53)~~ is a gas discharge diverter or a varistor or a diode, and across ~~this~~ the pulse-diverting element ~~(51, 53)~~ and the capacitor ~~(52, 54)~~ a DC feed ~~(55)~~ is disposed.

Claim 17 (currently amended): Interference suppression filter and lightning current diverter device as claimed in claim 1, ~~characterized in that~~ wherein the inner conductor ~~(3)~~ separates the two lines, the inner conductor and the housing (5, 6; 60, 61) as well as the housing (2, 2') from one another through dielectrics (24; 25; 62; 63) are separated from one another by dielectric material.

Claim 18 (currently amended): Interference suppression filter and lightning current diverter device as claimed in claim 1, ~~characterized in that~~ wherein, with the exception of the first and second contact elements ~~(18, 19; 27, 28; 69, 70; 67, 68)~~, at the ends of the two lines ~~(5, 6; 60, 61)~~, all effective structural elements are disposed concentrically to the longitudinal axis ~~(9)~~ of the inner conductor ~~(3)~~ or of the device ~~(1)~~, or parallel to ~~this~~ the longitudinal axis ~~(9)~~.

Claim 19 (new): Interference suppression filter and lightning current diverter device as claimed in claim 1, wherein the two lines are disposed such that at least a region of the lines are substantially overlapping with respect to one another.

Claim 20 (new): Interference suppression filter and lightning current diverter device as claimed in claim 1, wherein one of the ends of the lines are electrically connected to the inner conductor at different points on the inner conductor.